



# SiGe/Si HBT Microwave Devices

**Task Manager: Dr. George Ponchak (GRC)**

## Objective

- Assess the status and readiness of SiGe technology and reliability
- Establish cooperative relationships with labs, industry and universities
- Be better prepared for implementation of SiGe in NASA missions

## Participating Centers

- Dr. Rosa Leon (JPL)
- Ashok Shama (GSFC)

## Deliverables

- Report on SiGe technology:
  - will combine Industrial survey and literature review of reliability data in SiGe HBT devices. Deliverable will include review paper/report and WEB site. (Joint work with George Ponchak from GRC)
- Contribute experimental results on failure mechanisms of SiGe HBTs by conducting failure analysis on failed SiGe HBTs. These devices will be sent to JPL after life tests in GRC and U. Michigan.